

What is claimed is:

1. A data processing apparatus comprising:

an analyzing section which receives as its input structure description data with a structure of entire media contents that are continuous visual and audio information or of part of the media contents, said structure being expressed by a set of time information of each media segment obtained by dividing the media contents, and which acquires the time information of the media segment described in the structure description data input thereto; and

a converting section that converts the structure description data into representation description data expressive of representation order, representation timing and synchronization information of the media segment, using the time information of the analyzed media segment, to output.

2. The apparatus according to claim 1, wherein the structure description data has a set of alternative data to the media segment, and said converting section converts the structure description data into the representation description data expressive of representation order, representation timing and synchronization information of at least one of the media segment and the alternative data.

3. The apparatus according to claim 1, wherein the representation description data is a SMIL document.

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4. The apparatus according to claim 2, further comprising:

a media selecting section that selects either the media segment or the alternative data to represent in
5 representing the media segment expressed in the structure description data,

wherein based on selection by said media selecting section, said converting section converts the structure description data into the representation description
10 data expressive of representation order, representation timing and synchronization information of either the media segment or the alternative data.

5. A data processing apparatus comprising:

a selecting section which receives as its inputs
15 structure description data with a structure of media contents that are continuous visual and audio information in which image information and audio information are synchronized, said structure being expressed by a set of each media segment obtained by
20 dividing the media contents, with time information of the media segment, and with a score based on a context content of the media segment, and a selection condition for selecting a predetermined media segment from the structure description data, and which selects only the
25 media segment with the score meeting the selection condition from the structure description data input thereto; and

0987035-061101

a converting section that converts the media segment selected in said selecting section into representation description data expressive of representation order, representation timing and
5 synchronization information of the media segment selected, to output.

6. The apparatus according to claim 5, wherein the structure description data has a set of alternative data to the media segment, and said converting section
10 converts the structure description data into the representation description data expressive of representation order, representation timing and synchronization information of at least one of the media segment and the alternative data.

15 7. The apparatus according to claim 5, wherein the score is indicative of an importance degree of a corresponding media segment based on the context content of the media content.

8. The apparatus according to claim 5, wherein the
20 media segment is assigned a viewpoint represented by a keyword, and the score is indicative of an importance degree based on the viewpoint.

9. The apparatus according to claim 6, wherein said selecting section selects either the media segment or
25 the alternative data to represent in representing the media segment expressed in the structure description data.

10. A data processing apparatus comprising:

5 a selecting section which receives as its inputs structure description data with a structure of media contents that are continuous visual and audio information including at least one of image information and audio information, said structure being expressed by a set of each media segment obtained by dividing the media contents, with time information of the media segment, and with a score based on a context content of
10 the media segment, and a selection condition for selecting a predetermined media segment from the structure description data, and which selects the media segment with the score meeting the selection condition from the structure description data input thereto; and
15 a converting section that converts the media segment selected in said selecting section into representation description data expressive of representation order, representation timing and synchronization information of the media segment
20 selected to output.

11. A data processing apparatus comprising:

a selecting section which receives as its inputs structure description data with a structure of media contents that are continuous visual and audio
25 information, said structure being expressed by a set of each media segment obtained by dividing the media contents, with time information of the media segment,

and with a score based on a context content of the media segment, and a selection condition for selecting a predetermined media segment from the structure description data, and which selects the media segment
5 with the score meeting the selection condition from the structure description data input thereto; and

a converting section that converts the media segment selected in said selecting section into representation description data expressive of
10 representation order, representation timing and synchronization information of the media segment selected to output; and

a representing section which receives as its inputs the representation description data and the media
15 contents, and which represents the media contents corresponding to contents of the representation description data.

12. A server client system comprising:

a server having the selecting section according to
20 claim 11 and the converting section according to claim 11;

a client having the representing section according to claim 11; and

a network that connects said server and said client,
25 wherein said server and said client communicate the representation description data therebetween.

13. A server client system comprising:

0987035-061101

a server having the selecting section according to claim 11;

a client having the converting section according to claim 11 and the representing section according to
5 claim 11; and

a network that connects said server and said client, wherein said server and said client communicate therebetween summary structure data with therein the media segment selected in said selecting section only
10 left.

14. A data processing method, comprising:

receiving structure description data with a structure of entire media contents that are continuous visual and audio information or of part of the media
15 contents, said structure being expressed by a set of time information of each media segment obtained by dividing the media contents;

acquiring the time information of the media segment described in the input structure description data; and
20 converting the structure description data into representation description data expressive of representation order, representation timing and synchronization information of the media segment, using the time information of the analyzed media segment, to
25 output.

15. A data processing method, comprising:

receiving structure description data with a

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structure of media contents that are continuous visual and audio information in which image information and audio information are synchronized, said structure being expressed by a set of each media segment obtained by

5 dividing the media contents, with time information of the media segment, and with a score based on a context content of the media segment, and a selection condition for selecting a predetermined media segment from the structure description data;

- 10 selecting only the media segment with the score meeting the selection condition from the input structure description data; and

converting the selected media segment into representation description data expressive of

15 representation order, representation timing and synchronization information of the selected media segment to output.

16. A data processing method, comprising:

- receiving structure description data with a
- 20 structure of media contents that are continuous visual and audio information including at least one of image information and audio information, said structure being expressed by a set of each media segment obtained by dividing the media contents, with time information of
- 25 the media segment, and with a score based on a context content of the media segment, and a selection condition for selecting a predetermined media segment from the

09877035-051101

input structure description data;

selecting the media segment with the score meeting the selection condition from the input structure description data; and

5 converting the selected media segment into representation description data expressive of representation order, representation timing and synchronization information of the selected media segment to output.

10 17. A program for a computer to execute the procedures of:

receiving structure description data with a structure of entire media contents that are continuous visual and audio information or of part of the media
15 contents, said structure being expressed by a set of time information of each media segment obtained by dividing the media contents;

acquiring the time information of the media segment described in the structure description data input
20 thereto; and

converting the structure description data into representation description data expressive of representation order, representation timing and synchronization information of the media segment, using
25 the time information of the analyzed media segment, to output.

18. A computer program for a computer to execute the

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procedures of:

receiving structure description data with a structure of media contents that are continuous visual and audio information in which image information and audio information are synchronized, said structure being expressed by a set of each media segment obtained by dividing the media contents, with time information of the media segment, and with a score based on context content of the media segment, and a selection condition for selecting a predetermined media segment from the structure description data;

selecting only the media segment with the score meeting the selection condition from the structure description data input thereto; and

converting the selected media segment into representation description data expressive of representation order, representation timing and synchronization information of the selected media segment to output.

19. A program for a computer to execute the procedures of:

receiving structure description data with a structure of media contents that are continuous visual and audio information including at least one of image information and audio information, said structure being expressed by a set of each media segment obtained by dividing the media contents, with time information of

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the media segment, and with a score based on a context content of the media segment, and a selection condition for selecting a predetermined media segment from the structure description data;

- 5 selecting only the media segment with the score meeting the selection condition from the structure description data input thereto; and

 converting the selected media segment into representation description data expressive of
10 representation order, representation timing and synchronization information of the selected media segment to output.

20. A computer readable storage medium with the program according to claim 17 stored therein.

09877035-061101